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1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/732,560A

DATE: 04/21/2003

TIME: 15:03:31

Input Set : A:\seqlistcorr.txt

Output Set: N:\CRF4\04212003\I732560A.raw

3 <110> APPLICANT: Schlegel, Robert  
 4 Deeds, James D.  
 5 Berger, Allison  
 6 Zhao, Xumei  
 8 <120> TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR IDENTIFICATION,  
 9 ASSESSMENT, PREVENTION, AND THERAPY OF CERVICAL CANCER  
 11 <130> FILE REFERENCE: MRI-008A  
 13 <140> CURRENT APPLICATION NUMBER: 09/732560A  
 14 <141> CURRENT FILING DATE: 2000-12-08  
 16 <150> PRIOR APPLICATION NUMBER: 60/169811  
 17 <151> PRIOR FILING DATE: 1999-12-08  
 19 <150> PRIOR APPLICATION NUMBER: 60/171330  
 20 <151> PRIOR FILING DATE: 1999-12-21  
 22 <150> PRIOR APPLICATION NUMBER: 60/189113  
 23 <151> PRIOR FILING DATE: 2000-03-14  
 25 <150> PRIOR APPLICATION NUMBER: 60/193943  
 26 <151> PRIOR FILING DATE: 2000-03-31  
 28 <150> PRIOR APPLICATION NUMBER: 60/203772  
 29 <151> PRIOR FILING DATE: 2000-05-12  
 31 <150> PRIOR APPLICATION NUMBER: 60/210820  
 32 <151> PRIOR FILING DATE: 2000-06-09  
 34 <150> PRIOR APPLICATION NUMBER: 60/220113  
 35 <151> PRIOR FILING DATE: 2000-07-21  
 37 <160> NUMBER OF SEQ ID NOS: 126  
 39 <170> SOFTWARE: PatentIn Ver. 2.0  
 41 <210> SEQ ID NO: 1  
 42 <211> LENGTH: 457  
 43 <212> TYPE: DNA  
 44 <213> ORGANISM: Homo sapiens  
 46 <400> SEQUENCE: 1  
 47 cgcggtggcg gccgaggtac aatttatgca gaacttcagg gatgtttgta ttcatacaaga 60  
 48 caagaagatt catctcacag tgggtgtattt tggtaaagaa ggactgtcta aagtcaagtc 120  
 49 tctcctagaa tctgtcacca gtgagtctaa ttttcacaat tacaccttgg tctcattgaa 180  
 50 tgaagaattt aatcgtggac gaggactaaa tgtgggtgcc cgagcttggg acaagggaga 240  
 51 ggtcttgatg tttttctgtg atgttgatat ctatttctca gccgaattcc ttaacagctg 300  
 52 ccggttaaat gctgagccag gtaagaaggt gttttaccct gtgggtgttca gtctttacaa 360  
 53 tcttgccatt gtttatgcca accaggaagt gccaccacct gtggagcagc agctggttca 420  
 54 caaaaaggat tctggctttt ggcgagattt tggcttt 457  
 56 <210> SEQ ID NO: 2  
 57 <211> LENGTH: 185  
 58 <212> TYPE: DNA  
 59 <213> ORGANISM: Homo sapiens  
 61 <220> FEATURE:

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```

62 <221> NAME/KEY: misc_feature
63 <222> LOCATION: 18,99,142
64 <223> OTHER INFORMATION: n = a,c,g, or t
66 <400> SEQUENCE: 2
W--> 67 accgcggtgg oggcccgangt acgcgggagc cctctcactc ctcaactgagt ccctctgaac 60
68 gtgctaaaaat gggaaggagg cgaggttttg ctgatctgnt aaattcttag tgaagtttcc 120
69 tcgattttcca gtggctgctg tngtttgagt ttggtttgga gcaaaactga ggtagtccta 180
70 acatt 185
72 <210> SEQ ID NO: 3
73 <211> LENGTH: 43
74 <212> TYPE: DNA
75 <213> ORGANISM: Homo sapiens
77 <400> SEQUENCE: 3
78 cccttagcgt ggtcgcggcc gaggtacttt tttttttttt ttt 43
80 <210> SEQ ID NO: 4
81 <211> LENGTH: 322
82 <212> TYPE: DNA
83 <213> ORGANISM: Homo sapiens
85 <220> FEATURE:
86 <221> NAME/KEY: misc_feature
87 <222> LOCATION: 101,261,312
88 <223> OTHER INFORMATION: n = a,c,g, or t
90 <400> SEQUENCE: 4
91 cccttagcgt ggtcgcggcc gaggtacttt tttttttttt tttttttttt tactgctaaa 60
W--> 92 ctatatattaac tcataataaa aagtaactag tcaaaattta naacattctg atcaaaatgg 120
93 gtctgcacat gcctttcaaa cacctgctgg tcatagtcag gaggggaactg ctgcgtacac 180
94 atcgggcaca ccttccagtg actttcaaca tgttcttcaa atttgctctg atcatagtta 240
95 ggaggaaaca ttaactcaca naggggacac ttcttgtaa catcaaagct ggaatcaaag 300
96 caaaagcctg tnccatgccc ac 322
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 327
100 <212> TYPE: DNA
101 <213> ORGANISM: Homo sapiens
103 <400> SEQUENCE: 5
104 cccttagcgt ggtcgcggcc gaggtactat gctatttttac ttttttgata taaaatcaag 60
105 atattttcttt gctgaagtat ttaaattctta tccttgatc tttttataca tatttgaaaa 120
106 taagcttata tgtatttgaa cttttttgaa atcctattca agtatattta tcatgctatt 180
107 gtgatatttt agcacttttg tagcttttac actgaatttc taagaaaatt gtaaaatagt 240
108 cttctttttat actgtaaaaa aagatatacc aaaaagtctt ataataggaa ttttaacttta 300
109 aaaaccact tattgatacc ttaccat 327
111 <210> SEQ ID NO: 6
112 <211> LENGTH: 288
113 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
116 <220> FEATURE:
117 <221> NAME/KEY: misc_feature
118 <222> LOCATION: 65,152,189,196,198,200,230,235,253,258,268
119 <223> OTHER INFORMATION: n = a,c,g, or t
121 <400> SEQUENCE: 6

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```

122 cccttagcgt ggtcgcggcc gaggtacttt cctagatgac atatcgagtc aacatgaagc 60
W--> 123 cttanctgaa atgaatgatt caggatatta atgagaaatt ctcacaaatg atatgcattt 120
124 aggaaatgat tttgctttcc ttaaatagtt cnaaggcttg aaaataaaact ttctttttgc 180
125 atttcttttna gaatgntngn tcattaacaa cttttaacct tatcttcctn ttctncttag 240
126 cccttaacag acngagtnca ttctatgntg gaaataacaa gaacttga 288
128 <210> SEQ ID NO: 7
129 <211> LENGTH: 123
130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapiens
133 <400> SEQUENCE: 7
134 cccttagcgt ggtcgcggcc gaggtacgcg ggaaagcaga gctagtaatg ctttttgagt 60
135 ttcattgttg tttattttca cagattgggg taacgtgcac tgtaagacgt atgtaacatg 120
136 atg 123
138 <210> SEQ ID NO: 8
139 <211> LENGTH: 272
140 <212> TYPE: DNA
141 <213> ORGANISM: Homo sapiens
143 <400> SEQUENCE: 8
144 ccctttcgag cggccgcccc ggcaggtgct caaaatataa gcagcttgaa actggcttta 60
145 ccaatcttga aatttgacca caagtgtctt atatatgcag atctaattga aaatccagaa 120
146 ctggactcc atcgtaaaaa ttatttatgt gtaacattca aatgtgtgca ttaaataatgc 180
147 ttccacagta aaatctgaaa aactgatttg tgattgaaag ctgcctttct atttacttga 240
148 gtcttgtacc tcggccgcga ccacgctaag gg 272
150 <210> SEQ ID NO: 9
151 <211> LENGTH: 367
152 <212> TYPE: DNA
153 <213> ORGANISM: Homo sapiens
155 <220> FEATURE:
156 <221> NAME/KEY: misc_feature
157 <222> LOCATION: 31
158 <223> OTHER INFORMATION: n = a,c,g, or t
160 <400> SEQUENCE: 9
W--> 161 gatatatgca gaattcgccc ttctgagcgg ncgccccggc aggtacgcgg gaaataatgc 60
162 ttgaatacaa gtgactaagc caacaacaga ataaatactt ttatagtagt tttataatcc 120
163 tgaaattcga aagctttccc aattgcactt gcatctaaac aaaactgttg cagtttttac 180
164 tctattttatt ttgttcccca tgtttatgaa agtcctgcac agtttcaaag gcatggtaaa 240
165 taatatatca atgtttatgt agtctgttac agaaacagct atagataaca ttatccagtg 300
166 aagagcaaaa tccaagcttt agaaaaatat tcatgcatgc aattttgaca tatcttaaaa 360
167 aataggt 367
169 <210> SEQ ID NO: 10
170 <211> LENGTH: 245
171 <212> TYPE: DNA
172 <213> ORGANISM: Homo sapiens
174 <400> SEQUENCE: 10
175 ccctttcgag cggccgcccc ggcaggtacg cggggatgaa gcaattgctg aattggatac 60
176 gctgaatgaa gagtcttata aagacagcac tctgatcatg cagttaactta gggacaatct 120
177 cactctgttg acatcggaag accagggaga cgaaggagac gctggggagg gagagaacta 180
178 atgtttctcg tgctttgtga tctgttcagt gtcactctgt acctcggccg cgaccacgct 240
179 aaggg 245

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181 <210> SEQ ID NO: 11
182 <211> LENGTH: 302
183 <212> TYPE: DNA
184 <213> ORGANISM: Homo sapiens
186 <220> FEATURE:
187 <221> NAME/KEY: misc_feature
188 <222> LOCATION: 300
189 <223> OTHER INFORMATION: n = a,c,g, or t
191 <400> SEQUENCE: 11
192 ccctttcgag cggcccgccc gggcaggtac tttttttttt tttttttttt ttttttttgg 60
193 gattcttggt aaaattttat ccaaaaaaca ggatacatat atatttagag aaggaaatat 120
194 gaaatcaaga gttttggcag cccctgcttt tttttttttt ttagctccct aaagactgta 180
195 gcaggataaa aggatcactg gctccgagtc tctttgagat aacaagtgat gaaataaaaa 240
W--> 196 agaaagccca taccctcaaa taaggtcagg taacccatt gccaccctc cctacaaggn 300
197 aa 302
199 <210> SEQ ID NO: 12
200 <211> LENGTH: 97
201 <212> TYPE: DNA
202 <213> ORGANISM: Homo sapiens
204 <220> FEATURE:
205 <221> NAME/KEY: misc_feature
206 <222> LOCATION: 23,92
207 <223> OTHER INFORMATION: n = a,c,g, or t
209 <400> SEQUENCE: 12
W--> 210 cccttagcgt ggtcgcgccc gangtacagt gggagagtga ggtgggagaa gaagagtgtc 60
211 tggtaggtgt gtcactgtc ttcttggtg anaatgt 97
213 <210> SEQ ID NO: 13
214 <211> LENGTH: 233
215 <212> TYPE: DNA
216 <213> ORGANISM: Homo sapiens
218 <220> FEATURE:
219 <221> NAME/KEY: misc_feature
220 <222> LOCATION: 54,86,108,114,121,150,173,183,185,196,199,207,209,215,218,232
221 <223> OTHER INFORMATION: n = a,c,g, or t
223 <400> SEQUENCE: 13
W--> 224 ccctttcgag cggccgccc ggcaggtact tttttttttt tttttttttt tttntttttt 60
225 tttttttttt ttttaaaaaa ctcggnnttt atacaataaa atgtttnta gcanatgcct 120
226 nttgttttaa tatattaaaa ttttgcaaan cccttgagc tactgcctta gtntaccac 180
227 tgncttttg ttatgnggna gaggatntna tgacnccnta cacacaaacc cnt 233
229 <210> SEQ ID NO: 14
230 <211> LENGTH: 498
231 <212> TYPE: DNA
232 <213> ORGANISM: Homo sapiens
234 <400> SEQUENCE: 14
235 cccttagcgt ggtcgcgccc gaggtacatg ggcaatgctg gacgtaaaga aagaagtgat 60
236 gcactcaatt ctgcaataga taaaatgacc aagaagacca gggacttgcg tagacagctc 120
237 cgcaaagctg tcatggacca cgtttcagat tcttcctgg aaaccaatgt tccacttttg 180
238 gtattgattg aagctgcaaa gaatggaaat gagaaagaag ttaaggagta tgcccaagtt 240
239 ttccgtgaac atgccaacaa attgattgag gttgccaaact tggcctgttc catctcaa 300

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240 aatgaagaag gtgtaaagct tgttogaatg tctgcaagcc agttagaagc cctctgtcct 360
241 caggttatta atgctgcact ggcttttagca gcaaaaccac agagtaaact ggcccaagag 420
242 aacatggatc tttttaaaga caatgggaaa aacaagtccg tgttctcaca gatgctgtcg 480
243 atgacattac ttccattg 498
245 <210> SEQ ID NO: 15
246 <211> LENGTH: 273
247 <212> TYPE: DNA
248 <213> ORGANISM: Homo sapiens
250 <220> FEATURE:
251 <221> NAME/KEY: misc_feature
252 <222> LOCATION: 85,177,243,246
253 <223> OTHER INFORMATION: n = a,c,g, or t
255 <400> SEQUENCE: 15
256 cccttagcgt ggtcgcggcc gaggtaccaa gattaacaaa agcagtggca ttgtggaggc 60
W--> 257 atcacggatc atgaatttat accantttat tcaactttat aaagatatca caagtoaagc 120
258 agcaggagta ttggcacaga gctccacctc tgaagaacct gatgaaaact catcctntgt 180
259 aacatcttgt caggctatgt ctttgggatgg gaagggtgaa gcagctgacc gatgaggagg 240
260 agngtngtat ctgtatggat gggcgggctg acc 273
262 <210> SEQ ID NO: 16
263 <211> LENGTH: 45
264 <212> TYPE: DNA
265 <213> ORGANISM: Homo sapiens
267 <400> SEQUENCE: 16
268 cccttagcgt ggtcgcggcc gaggtacttt tttttttttt ttttt 45
270 <210> SEQ ID NO: 17
271 <211> LENGTH: 408
272 <212> TYPE: DNA
273 <213> ORGANISM: Homo sapiens
275 <220> FEATURE:
276 <221> NAME/KEY: misc_feature
277 <222> LOCATION: 198,336,355
278 <223> OTHER INFORMATION: n = a,c,g, or t
280 <400> SEQUENCE: 17
281 cccttagcgt ggtcgcggcc gaggtaccaa ggtgtgctga agtggaagca aagttctcca 60
282 aagtccagca tggtagacat cagtgggtgt aaccaaggac agacccaag gcaagggtgaa 120
283 cctcaaaaat ggaacctcaa gtctatgcag tccagctgcc ctccccacca gaaagtcctt 180
W--> 284 gttccagccc aacatcantg cctctgagtt tgtttactag aaacaaagga agaatttcct 240
285 tgtaaaaata tagacagagt agtccctggc tttctcctct tgcaggaagg atggattctc 300
286 ccattccata ccattcttgc cccacactgg cccangaaa tacttaattc aactntgtga 360
287 aaataaagat tgtttttggt tttgaggggc aaaaaaaaaa aaaaaaaa 408
289 <210> SEQ ID NO: 18
290 <211> LENGTH: 244
291 <212> TYPE: DNA
292 <213> ORGANISM: Homo sapiens
294 <220> FEATURE:
295 <221> NAME/KEY: misc_feature
296 <222> LOCATION: 69,105
297 <223> OTHER INFORMATION: n = a,c,g, or t
299 <400> SEQUENCE: 18

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**RAW SEQUENCE LISTING ERROR SUMMARY**  
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Input Set : A:\seqlistcorr.txt  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 18,99,142  
 Seq#:4; N Pos. 101,261,312  
 Seq#:6; N Pos. 65,152,189,196,198,200,230,235,253,258,268  
 Seq#:9; N Pos. 31  
 Seq#:11; N Pos. 300  
 Seq#:12; N Pos. 28,92  
 Seq#:13; N Pos. 54,86,108,114,121,150,173,183,185,196,199,207,209,215,218  
 Seq#:13; N Pos. 232  
 Seq#:15; N Pos. 85,177,243,246  
 Seq#:17; N Pos. 198,336,355  
 Seq#:18; N Pos. 69,105  
 Seq#:19; N Pos. 30  
 Seq#:20; N Pos. 39,212,313  
 Seq#:21; N Pos. 470,471  
 Seq#:22; N Pos. 1,18,50  
 Seq#:25; N Pos. 99,105,134,141,143,173,183,185,188,194,199,210,223,231,237  
 Seq#:25; N Pos. 240,247,260,264,274,278,283,287,297,315,322,324  
 Seq#:26; N Pos. 116,130,140,146,162,164,165,179  
 Seq#:28; N Pos. 10,13,23,26,78,98,106,117,131,143,158,163,168,179,183  
 Seq#:31; N Pos. 201  
 Seq#:33; N Pos. 67,71,83,115,193,196,252  
 Seq#:34; N Pos. 173  
 Seq#:37; N Pos. 119  
 Seq#:39; N Pos. 6,20,22  
 Seq#:40; N Pos. 79,105,148,199,212,215  
 Seq#:41; N Pos. 1,21,24  
 Seq#:43; N Pos. 17,35,61  
 Seq#:45; N Pos. 50  
 Seq#:46; N Pos. 254,275,279  
 Seq#:47; N Pos. 147,220,227,281  
 Seq#:48; N Pos. 107,108,120,173  
 Seq#:49; N Pos. 15,54,87,102,104,105,109,110,130  
 Seq#:50; N Pos. 30,34,118,178,232  
 Seq#:52; N Pos. 56,69,103,151,164,175,190,208,250,289,292  
 Seq#:54; N Pos. 16,22,27,28,50,66,76,78,85,88,91,97,99,102,106,107,117,125  
 Seq#:54; N Pos. 156,161,163,176,198,221  
 Seq#:56; N Pos. 92,111,142,347,396,405,406,407,411,414,415,416,417,418,420  
 Seq#:58; N Pos. 215,263,290,297  
 Seq#:59; N Pos. 1,15,33  
 Seq#:60; N Pos. 38,39,40,41  
 Seq#:61; N Pos. 50  
 Seq#:62; N Pos. 25  
 Seq#:64; N Pos. 308,337,355,357,362  
 Seq#:66; N Pos. 302,304

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Seq#:68; N Pos. 104  
Seq#:69; N Pos. 9  
Seq#:70; N Pos. 192,252,276  
Seq#:74; N Pos. 227,230,238  
Seq#:79; N Pos. 63,74,104,118,125,129,135,147,149,154,165,180,186,187,194  
Seq#:79; N Pos. 208  
Seq#:80; N Pos. 54,63

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:25; Line(s) 400  
Seq#:54; Line(s) 830

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Input Set : A:\seqlistcorr.txt

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L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
M:341 Repeated in SeqNo=2  
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:60  
M:341 Repeated in SeqNo=4  
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60  
M:341 Repeated in SeqNo=6  
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:240  
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
M:341 Repeated in SeqNo=12  
L:224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
M:341 Repeated in SeqNo=13  
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:60  
M:341 Repeated in SeqNo=15  
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:180  
M:341 Repeated in SeqNo=17  
L:301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:60  
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
M:341 Repeated in SeqNo=20  
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:420  
L:370 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:60  
M:341 Repeated in SeqNo=25  
L:423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:60  
M:341 Repeated in SeqNo=26  
L:450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
M:341 Repeated in SeqNo=28  
L:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:180  
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:60  
M:341 Repeated in SeqNo=33  
L:538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:120  
L:579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:60  
L:607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0  
L:626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:60  
M:341 Repeated in SeqNo=40  
L:642 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0  
L:665 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0  
M:341 Repeated in SeqNo=43  
L:692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0  
L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:240  
L:725 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:120  
M:341 Repeated in SeqNo=47  
L:742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:60  
M:341 Repeated in SeqNo=48  
L:757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
M:341 Repeated in SeqNo=49  
L:772 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0



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M:341 Repeated in SeqNo=50

L:803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0